

California Marine Life Protection Act Initiative
MLPA North Coast Study Region: Round 1 Evaluations
Staff Summary of Area and Habitats in Proposal 0 (Existing MPAs)
Date Created: March 5, 2010

Table 1. Summary of MPAs by Designation for Proposal 0 (Existing MPAs)

Type of MPA ^a	# of MPAs	Area (mi ²)	% of Study Region
State Marine Reserve (SMR)	1	2.07	0.2%
State Marine Recreational Managed Area (SMRMA)	0	0.00	0.0%
State Marine Park (SMP)	0	0.00	0.0%
State Marine Conservation Area (SMCA)	4	1.06	0.1%
All MPAs combined	5	3.13	0.3%

^a These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT). SMRMA is not an MPA designation, but rather a marine managed area designation.

Table 2. Summary of MPAs by Level of Protection for Proposal 0 (Existing MPAs)

Level of Protection (LOP)	# Proposed	Area (mi ²)	% of Study Region
Very High ^b	1	2.07	0.2%
High	0	0.00	0.0%
Moderate-High	0	0.00	0.0%
Moderate	0	0.00	0.0%
Low ^c	4	1.06	0.1%
Total	5	3.13	0.3%

^b The "Very High" category includes MPAs with SMR designation, as well as SMRMA designations.

^c The "Low" category groups together MPAs that are assigned a moderate-low and low level of protection.

Table 3. Individual MPAs in Proposal 0 (Existing MPAs)

MPA Name	Size ^d (mi ²)	Alongshore Span ^e (mi)	Depth Range ^f (ft)
Punta Gorda SMR	2.07	1.6	15 - 184
MacKerricher SMCA	0.72	3.0	0 - 38
Point Cabrillo SMCA	0.22	0.9	0 - 20
Russian Gulch SMCA	0.09	0.7	0 - 3
Van Damme SMCA	0.02	0.2	0 - 11

^d Statue mile is the unit of measurement used for this analysis.

^e Alongshore span measured as direct line from one end of the MPA to the other, roughly paralleling the coastline. An alongshore span is not calculated for estuarine MPAs

^f Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

Table 4. Habitat Representation in Proposal 0 (Existing MPAs)

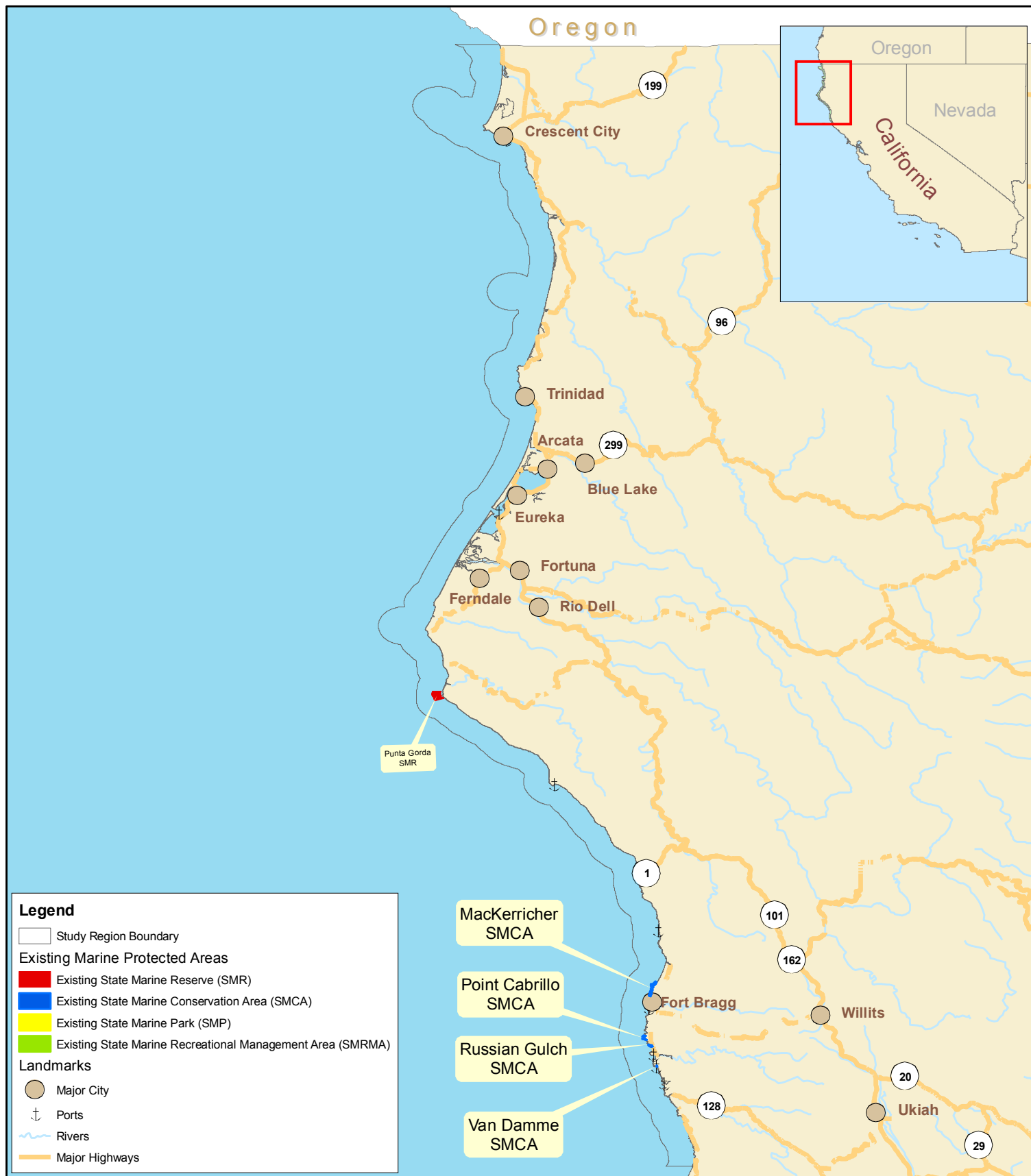
Habitat ^g	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
Intertidal										
Sandy or gravel beach*	0.00	0%	0.00	0%	0.00	0%	1.92	1%	1.92	1%
Rocky shores*	0.00	0%	0.00	0%	0.00	0%	7.84	5%	7.84	5%
Hardened shores*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Coastal marsh	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Tidal flats*	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Seagrass beds										
Humboldt Eelgrass	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Estuarine										
Estuary	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Hard bottom										
0-30 meters proxy*, ^h	0.81	2%	0.00	0%	0.00	0%	0.00	0%	0.81	2%
0-30 meters	0.40	1%	0.00	0%	0.00	0%	0.19	<1%	0.59	1%
30-100 meters	0.26	1%	0.00	0%	0.00	0%	0.00	0%	0.26	1%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Soft bottom										
0-30 meters proxy*, ^h	0.77	<1%	0.00	0%	0.00	0%	0.00	0%	0.77	<1%
0-30 meters	0.31	<1%	0.00	0%	0.00	0%	0.05	<1%	0.36	<1%
30-100 meters	1.00	<1%	0.00	0%	0.00	0%	0.00	0%	1.00	<1%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%

Habitat ^g	SMR		SMRMA		SMP		SMCA		Total MPAs	
	Area	%	Area	%	Area	%	Area	%	Area	%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Unknown										
0-30 meters proxy*, ^h	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
0-30 meters	0.10	<1%	0.00	0%	0.00	0%	0.82	<1%	0.92	1%
30-100 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
100-200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
>200 meters	0.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	0%
Other										
Offshore rocks*	0.00	0%	0.00	0%	0.00	0%	6.23	4%	6.23	4%
Linear kelp*	0.00	0%	0.00	0%	0.00	0%	0.23	<1%	0.23	<1%

^g Note: Habitats are measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

^h There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the north coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type for the 0-30 meter depth zone in that area based on available fine-scale substrate data, shoreline type, kelp abundance, and expert knowledge.

MLPA North Coast Study Region Existing Marine Protected Areas

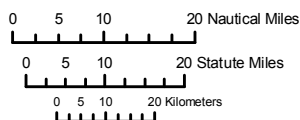


California Marine Life Protection Act (MLPA) Initiative

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 Projection: Albers
 Datum: North American 1983

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Disclaimer:

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California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array 0 (existing MPAs)
Document Created February 3, 2010

Name of Array: North Coast Existing MPAs (P0)

Author: N/A

Bioregions:

Northern: Oregon/California border to Mattole River

Southern: Mattole River to Alder Creek near Point Arena

Total number of MPAs:

5

Number of SMRs:

1

Number of SMCAs:

4

Number of SMPs:

0

Number of SMRMAs:

0

Number proposing tribal uses

0

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Punta Gorda SMR	73977	Southern Bioregion	This area is bounded by the three-fathom inshore depth contour, the 30- fathom depth contour and the following points: 40o 16.43' N. lat. 124o 22.00' W. long.; 40o 16.43' N. lat. 124o 23.50' W. long.; 40o 14.83' N. lat. 124o 23.18' W. long.; and 40o 15.23' N. lat. 124o 21.62' W. long.	SMR	Very high	No	Take of all living marine resources is prohibited.	Other restrictions exist regarding: swimming, boating, firearms, public entry, pesticides, herbicides and other regulated chemicals, litter, aircraft, pets, potential memorandums of understanding, and scientific research.

SMCA=state marine conservation area SMP=state marine park SMRMA=state marine recreational management area SMR=state marine reserve TBD=to be determined

* Levels of protection assigned do not take into account proposed Tribal uses.

California MLPA North Coast Study Region
Description of Marine Protected Areas (MPAs) in Array 0 (existing MPAs)
Document Created February 3, 2010

MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Punta Gorda SMR	N/A	None	None

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
MacKerricher SMCA	73976	Southern Bioregion	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 29.81' N. lat. 123o 47.50' W. long.; 39o 29.95' N. lat. 123o 47.80' W. long.; 39o 27.62' N. lat. 123o 48.80' W. long.; and 39o 27.55' N. lat. 123o 48.52' W. long.	SMCA	Low	No	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, squid, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None
Point Cabrillo SMCA	73978	Southern Bioregion	This area is bounded by the mean high tide line, a distance of 1000 feet seaward of mean lower low water, and the following points: 39o 21.24' N. lat. 123o 49.25' W. long.; 39o 21.33' N. lat. 123o 49.64' W. long.; 39o 20.66' N. lat. 123o 49.68' W. long.; and 39o 20.57' N. lat. 123o 49.27' W. long.	SMCA	Low	No	The take of all living marine resources is prohibited except: 1. The recreational take: none 2. The commercial take of Finfish and marine aquatic plants.	None

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
MacKerricher SMCA	N/A	None	None
Point Cabrillo SMCA	N/A	None	None

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Russian Gulch SMCA	73974	Southern Bioregion	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 19.86' N. lat. 123o 48.84' W. long.; 39o 19.85' N. lat. 123o 48.89' W. long.; 39o 19.52' N. lat. 123o 48.46' W. long.; and 39o 19.52' N. lat. 123o 48.23' W. long.	SMCA	Low	No	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None

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MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Russian Gulch SMCA	N/A	None	None

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MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations	Other Proposed Regulations
Van Damme SMCA	73975	Southern Bioregion	This area is bounded by the mean high tide line, the 3-fathom depth contour and the following points: 39o 16.45' N. lat. 123o 47.60' W. long.; 39o 16.355' N. lat. 123o 47.60' W. long.; 39o 16.27' N. lat. 123o 47.545' W. long.; and 39o 16.27' N. lat. 123o 47.43' W. long.	SMCA	Low	No	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached.	None

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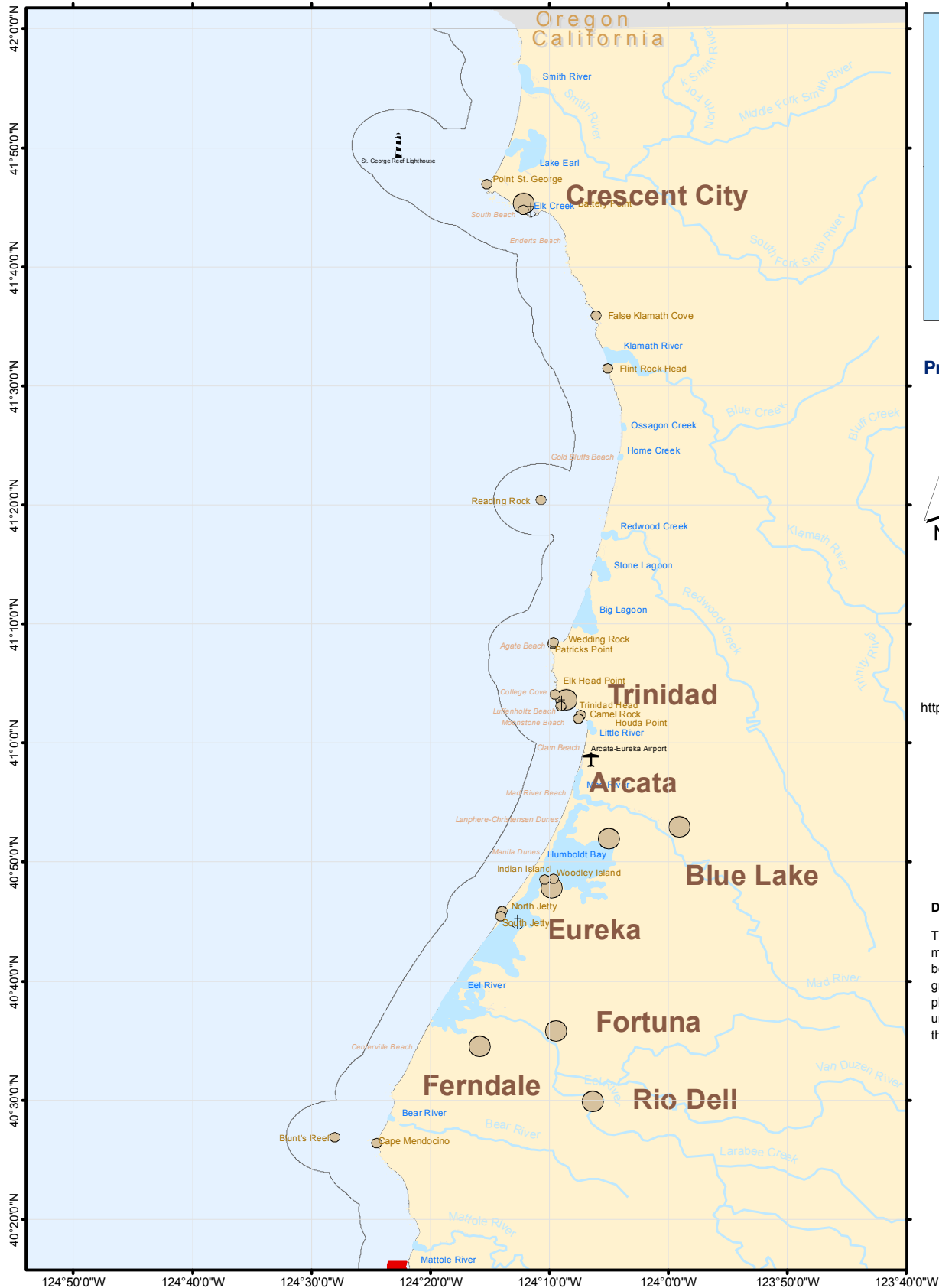
MPA Name	Regional Goals/Objectives	Site-specific Rationale	Other Considerations
Van Damme SMCA	N/A	None	None

California MLPA North Coast Project
Habitat Calculations for Proposal (P0)- Existing MPAs
Document Revised on: March 3, 2010

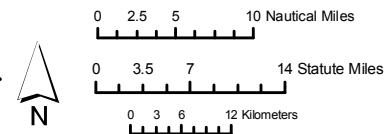
	How Measured	Total Available Habitat	Punta Gorda SMR	MacKerricher SMCA	Point Cabrillo SMCA	Russian Gulch SMCA	Van Damme SMCA
MPA ID			73977	73976	73978	73974	73975
MPA Designation			SMR	SMCA	SMCA	SMCA	SMCA
Level of Protection			Very high	Low	Low	Low	Low
SAT Evaluation Bioregion			Southern	Southern	Southern	Southern	Southern
Area	sq miles	1,027.23	2.07	0.72	0.22	0.09	0.02
Alongshore Span	miles	NA	1.60	3.02	0.90	0.69	0.20
ESI Shoreline	miles	516.66	0.00	4.50	2.69	2.22	0.35
Min Depth	feet	0.00	15.00	0.00	0.00	0.00	0.00
Max Depth	feet	1,667.00	184.00	38.00	20.00	3.00	11.00
Beaches	miles	180.42	0.00	1.57	0.00	0.00	0.35
Rocky Shores	miles	159.08	0.00	2.93	2.69	2.22	0.00
Hardened Shores	miles	22.10	0.00	0.00	0.00	0.00	0.00
Coastal Marsh	miles	88.60	0.00	0.00	0.00	0.00	0.00
Coastal Marsh (area)	sq miles	3.51	0.00	0.00	0.00	0.00	0.00
Tidal Flats	miles	66.46	0.00	0.00	0.00	0.00	0.00
Humboldt Eelgrass	sq miles	7.07	0.00	0.00	0.00	0.00	0.00
Estuary	sq miles	43.49	0.00	0.00	0.00	0.00	0.00
Offshore Rocks	miles	140.73	0.00	3.56	1.66	0.93	0.10
Linear Kelp	miles	52.10	0.00	0.00	0.23	0.00	0.00
Hard (0 - 30m) Proxy	miles	54.01	0.81	0.00	0.00	0.00	0.00
Hard (0 - 30m)	sq miles	42.32	0.40	0.09	0.08	0.02	0.00
Hard (30 - 100m)	sq miles	45.08	0.26	0.00	0.00	0.00	0.00
Hard (100 - 200m)	sq miles	0.99	0.00	0.00	0.00	0.00	0.00
Hard (> 200m)	sq miles	0.09	0.00	0.00	0.00	0.00	0.00
Soft (0 - 30m) Proxy	miles	159.39	0.77	0.00	0.00	0.00	0.00
Soft (0 - 30m)	sq miles	252.26	0.31	0.04	0.01	0.00	0.00
Soft (30 - 100m)	sq miles	420.79	1.00	0.00	0.00	0.00	0.00
Soft (100 - 200m)	sq miles	62.48	0.00	0.00	0.00	0.00	0.00
Soft (> 200m)	sq miles	7.67	0.00	0.00	0.00	0.00	0.00
Unknown (0 - 30m) Proxy	miles	19.10	0.00	0.00	0.00	0.00	0.00
Unknown (0 - 30m)	sq miles	164.96	0.10	0.59	0.13	0.07	0.02
Unknown (30 - 100m)	sq miles	26.74	0.00	0.00	0.00	0.00	0.00
Unknown (100 - 200m)	sq miles	0.15	0.00	0.00	0.00	0.00	0.00
Unknown (> 200m)	sq miles	0.20	0.00	0.00	0.00	0.00	0.00

MLPA North Coast Study Region Existing Marine Protected Areas

Northern Bioregion (Oregon/California border to Mattole River)



California Marine Life Protection Act (MLPA) Initiative



Date: 26 February 2010

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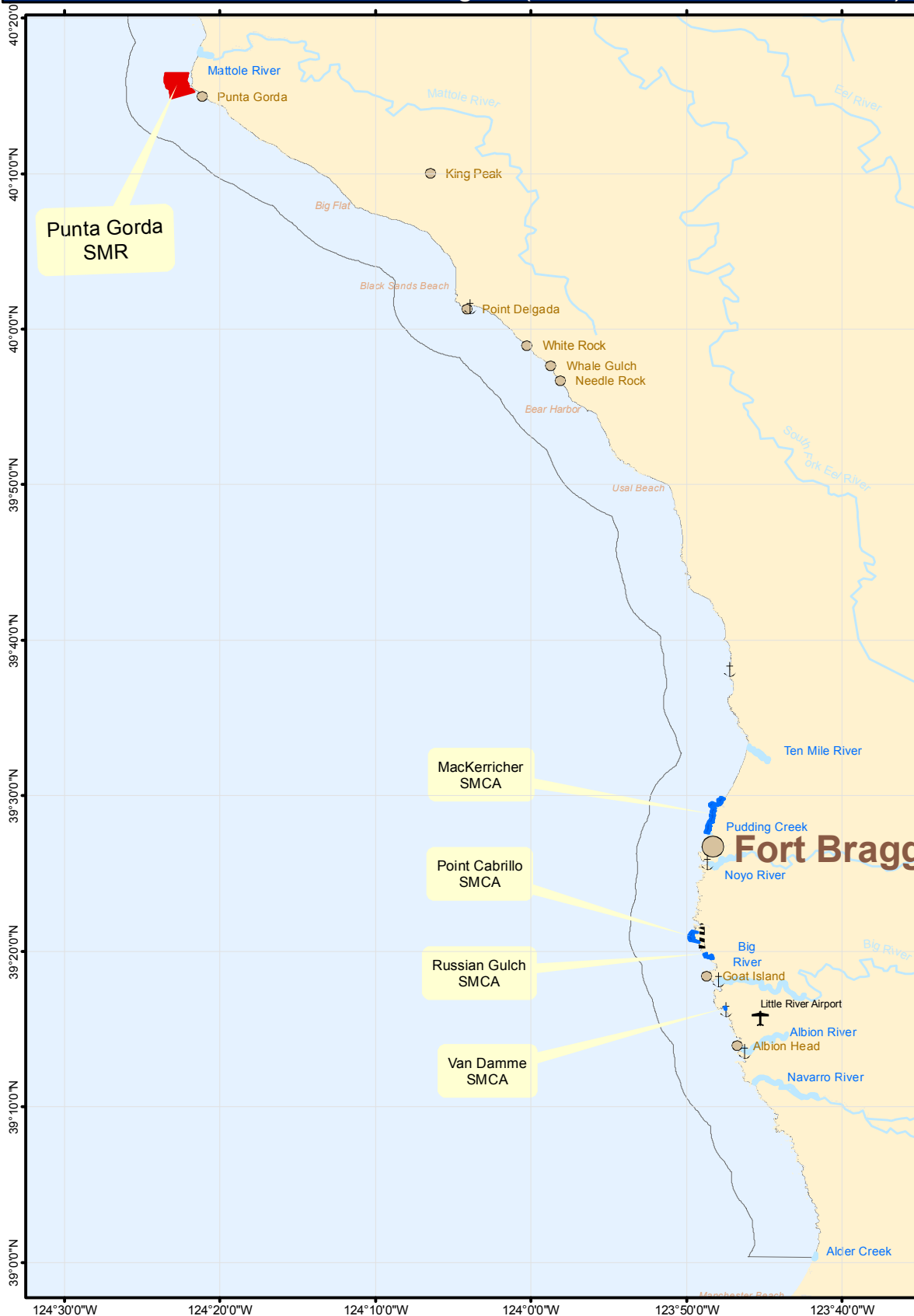
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Legend

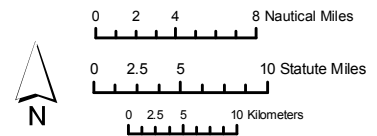
- | | | |
|--|-----------|---------------|
| North Coast Study Region Boundary | Estuaries | Lighthouse |
| Existing Marine Protected Areas | Rivers | Airport |
| Existing State Marine Reserve (SMR) | | Coastal Point |
| Existing State Marine Conservation Area (SMCA) | | Major City |
| Existing State Marine Park (SMP) | | Ports |
| Existing State Marine Recreational Management Area (SMRMA) | | |

MLPA North Coast Study Region Existing Marine Protected Areas

Southern Bioregion (Mattole River to Alder Creek)



California Marine Life Protection Act (MLPA) Initiative



Date: 26 February 2010

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- | | | |
|--|-----------|---------------|
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